

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A fluid pumping system comprising:
a pair of substantially counter synchronous fluid pumps;
a power fluid circuit for providing power fluid to and from the pair of fluid pumps, the power fluid circuit having a primary pump, wherein the pump comprises a pressure compensating pump chamber;
an indexing circuit for regulating the fluid in the power fluid circuit by introducing and removing fluid in the power fluid circuit throughout a pump cycle to allow one fluid pump to reach a full extended position prior to other fluid pump reaching a retracted position, ~~whereby the indexing circuit ensures that the pair of fluid pumps remain in substantially counter synchronous operation;~~ and
a trim circuit for providing fluid to the indexing circuit to ensure the pair of fluid pumps remain in substantially counter synchronous operation.
2. (Original) The fluid pumping system of claim 1, wherein the pair of substantially counter synchronous fluid pumps are a pair of plungers, each plunger movable between an extended position and a retracted position.
3. (Original) The fluid pumping system of claim 2, wherein at least one plunger is moved by a fluid operated cylinder.
4. (Original) The fluid pumping system of claim 1, further including a rapid reversal circuit to control the rate and direction of the pair of counter synchronous fluid pumps.
5. (Original) The fluid pump system of claim 4, wherein the rapid reversal circuit includes at least one poppet valve.

6. (Original) The fluid pumping system of claim 1, wherein the indexing circuit further includes an acceleration valve in selective communication with the power fluid circuit and the indexing circuit.
7. (Original) The fluid pumping system of claim 6, wherein the acceleration valve is constructed and arranged to selectively redirect fluid from the fluid power circuit to the indexing circuit as the fluid pumping system completes a cycle and one of the fluid pumps moves from the extended position to the retracted position.
8. (Original) The fluid pumping system of claim 1, further including a charge circuit for providing fluid to the power fluid circuit and the indexing circuit.
9. (Original) The fluid pumping system of claim 8, wherein the charge circuit includes at least one pressure sensing member for introducing fluid into the power fluid circuit or the indexing circuit when the pressure in any one or more circuits falls below the charge circuit pressure.
10. (Original) The fluid pumping system of claim 9, further including at least one biasing member for biasing one of the fluid pumps as the fluid pump moves from the retracted position.
11. (Original) The fluid pumping system of claim 10, wherein the biasing member urges the fluid pump towards the extended position, thereby lowering a pressure in the indexing circuit below a pressure in the charge circuit, thereby causing the charge circuit to introduce fluid to the indexing circuit.
12. (Cancelled)
13. (Original) The fluid pumping system of claim 8, wherein the power fluid circuit further includes a valve member and an accumulator for ensuring adequate fluid in the power fluid circuit.

14. (Original) The fluid pumping system of claim 13, wherein the accumulator stores fluid from the charge circuit and the valve member is arranged between the accumulator and the power fluid circuit to permit fluid introduction to the power fluid circuit in the event that fluid pressure in the circuit falls below a preset valve.

15. (Original) The fluid pumping system of claim 3, wherein the power fluid circuit further includes a pump, a signal box and at least one pair of limit switches for controlling the direction of fluid in the circuit.

16. (Original) The fluid pumping system of claim 15, wherein the pair of limit switches are constructed and arranged to trigger the signal box upon arrival of one of the fluid pumps at the retracted position, thereby causing the pump to redirect the flow of fluid in the power fluid circuit.

17. (Original) The fluid pumping system of claim 15, whereby the pair of limit switches is adjustable to determine the retracted position of the fluid pump.

18. – 19. (Cancelled)

Please add the following new claims:

20. (New) The fluid pumping system of claim 1, whereby the trim circuit is configured to introduce fluid into a power saving circuit to allow a transfer of energy between the pair of substantially counter synchronous fluid pumps during the pump cycle.

21. (New) A fluid pumping system, comprising:
a first and a second plunger;
a pressure compensated fluid pump for providing power fluid to and from the plungers;

an indexing pump configured to regulate the fluid in the pressure compensated fluid pump by introducing and removing fluid in the pressure compensated fluid pump throughout a pump cycle, wherein the pressure compensated fluid pump compensates for such introducing and removing, thereby allowing one plunger to reach a full extended position prior to other plunger reaching a retracted position; and

a rapid reversal circuit having at least one poppet valve and at least one control valve attached to each plunger, whereby the valves are configured to control the directional movement of each plunger during the pump cycle.

22. (New) A method for pumping a fluidstream comprising:

moving a pair fluid pumps between an extended position and a retracted position by utilizing a fluid power circuit;

introducing and removing fluid in the power fluid circuit via a indexing circuit throughout a pump cycle to allow one fluid pump to reach a full extended position prior to other fluid pump reaching the retracted position; and

introducing fluid into the indexing circuit via a trim circuit to maintain a substantially counter-synchronous relationship between the fluid pumps.

23. (New) The method of claim 22, further including lowering a pressure in the indexing circuit below a pressure in a charge circuit to cause the charge circuit to introduce fluid to the indexing circuit.

24. (New) The method of claim 23, further including dynamically compensating for the introducing and removing of fluid within the power fluid circuit.